UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/050,663	01/16/2002	Adam E. C. Yeh	MS#183303.1 (4965)	6055

321   7590   07/26/2005

SENNIGER POWERS LEAVITT AND ROEDEL
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16TH FLOOR
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EXAMINER
ORTIZ, BELIX M

ART UNIT	PAPER NUMBER
2164	

DATE MAILED: 07/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

			Application No.	Applicant(s)	
Supplemental			10/050,663	YEH, ADAM E. C.	
Notice of Allowability			Examiner	Art Unit	
			Belix M. Ortiz	2164	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *3/28/2205*.

2. ☒ The allowed claim(s) is/are *1-60*.

3. ☒ The drawings filed on *16 January 2002* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

      Paper No./Mail Date _____ .

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

CHARLES RONES
PRIMARY EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

1. The following is an Examiner's statement of reasons for the indication of

allowable subject matter: The prior art of record does not disclose, make

obvious, or otherwise suggest the structure of the applicant's prediction

program, prediction apparatus, and prediction method together with the other

limitations of the independent claims.

, The dependent claims being further limiting and definite are also
allowable. Any comments considered necessary by applicant must be submitted
no later than the payment of the Issue Fee and, to avoid processing delays, should
preferably **accompany** the Issue Fee. Such submissions should be clearly labeled
"Comments on Statement of Reasons for Allowance.

Authorization for this examiner's amendment was given in an interview

with Robert M. Bain on July 12, 2005.

AMENDMENT TO THE CLAIMS:

Claims 1, 43-44, and 48 have been amended. Claim 1-60 remain pending

in the application.

WHAT IS CLAIMED IS:

1. **(Currently Amended)** One or more computer readable storage media

having a data structure stored thereon, the data structure comprising:

a general dimension containing members in a plurality of levels, the levels

being organized according to a hierarchy in which descending levels in the

hierarchy are defined by increasing specificity;

a summary cube containing the members of at least one upper level of the general dimension; and

a detail cube, the detail cube including a horizontally partitioned dimension containing a first subset of the members of at least one lower level of the general dimension the lower level associated with the partitioned dimension being lower in the hierarchy than the upper level associated with the summary cube, the general dimension being horizontally partitioned based on a selected member of the upper level to form the horizontally partitioned dimension, the first subset of the members of the lower level corresponding to the selected member of the upper level.

43. **(Currently Amended)** One or more computer-readable storage media having computer-executable instructions for performing the method of claim 18.

44. **(Currently Amended)** One or more computer-readable storage media having computer-executable components for processing data, the data being organized in a dimension containing members in a plurality of levels, the levels being organized according to a hierarchy in which descending levels in the hierarchy are defined by increasing specificity, the components comprising:

a summary cube database component storing the members of an upper level of the dimension;

a first partitioned dimension component containing a first subset of the members of at least one lower level of the dimension, the lower level associated

with the first partitioned dimension component being lower in the hierarchy than

the upper level associated with the summary cube database component, the first

subset of the members of the lower level being partitioned from the dimension

based on a selected member of the upper level;

a first detail cube database component including the first partitioned

dimension component and one or more sub-cubes containing aggregations of the

first subset of the members of the lower level from the first partitioned dimension

component; and

a template component for implementing a workflow to automatically

create a second partitioned dimension component and a second detail cube

database component the second partitioned dimension component containing a

second of the members of the lower level of the dimension, the second subset of

the members of the lower level being partitioned from the dimension based on

another selected member of the upper level, the second detail cube database

component including the second partitioned dimension component and one or

more sub-cubes containing aggregations of the second subset of the member of

the lower level from the second partitioned dimension component

48. **(Currently Amended)** one or more computer-readable <u>storage</u> media

having computer-executable components for processing data, the data being

organized in a dimension containing members in a plurality of levels, the levels

being organized according to a hierarchy in which descending levels in the

hierarchy are defined by increasing specificity, the components comprising:

a summary cube database component storing the members of an upper level of the dimension;

a partitioned dimension component: containing a subset of the members of at least one lower level of the dimension, the lower level associated with the partitioned dimension component being lower on the hierarchy than the upper level associated with the summary cube database component, the subset of the members of the lower level being partitioned from the dimension based on a selected member of the upper level, the partitioned dimension component further containing the members of the upper level associated with the summary cube database component;

a detail cube database component including the partitioned dimension component and one or more sub-cubes containing aggregations of the subset of the members of the lower level from the partitioned dimension component the detail cube database component and the summary cube database component having the same dimensionality; and

a navigation component for implementing zoom in/zoom out events to navigate between information in the summary cube database component and information in the detail cube database component.

Reasons for Allowance

1. Claims 1-60 are allowed.

2. The following is a statement of reasons for the indication of allowable subject

   matter: the prior arts of records, neither anticipates nor renders obvious the

   following limitations as claimed:

   As to claims 1, 18, and 52 the prior art of records fail to anticipate or

suggest one or more computer readable media having a data structure stored

thereon, the data structure comprising:

   a summary cube containing the members of at least one upper level of the

general dimension; and

   a detail cube, the detail cube including a horizontally partitioned

dimension containing a first subset of the members of at least one lower level of

the general dimension, the lower level associated with the partitioned dimension

being lower in the hierarchy than the upper level associated with the summary-

cube, the general dimension being horizontally partitioned based on a selected

member of the upper level to form the horizontally partitioned dimension, the first

subset of the member of the lower level corresponding to the selected member of

the upper level, together with the other limitations of the independent claims.

   As to claim 44 the prior art of records fail to anticipate or suggest a

template component for implementing a workflow to automatically create a

second partitioned dimension component and a second detail cube database

component the second partitioned dimension component containing a second of

the members of the lower level of the dimension, the second subset of the

members of the lower level being partitioned from the dimension based on another selected member of the upper level, the second detail cube database component including the second partitioned dimension component and one or more sub-cubes containing aggregations of the second subset of the member of the lower level from the second partitioned dimension component, together with the other limitations of the independent claims.

As to claim 48 the prior art of records fail to anticipate or suggest a detail cube database component including the partitioned dimension component and one or more sub-cubes containing aggregations of the subset of the members of the lower level from the partitioned dimension component; the detail cube database component and the summary tube database component having thee same dimensionality; and

a navigation component for implementing zoom in/zoom out events to navigate between information in the summary cube database component and information in the detail cube database component, together with the other limitations of the independent claims.

The dependent claims being further limiting and definite are also allowable.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Belix M. Ortiz whose telephone number

is 571-272-4081. The examiner can normally be reached on moday-friday 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on 571-272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

bmo

July 13, 2005.

CHARLES RONES
PRIMARY EXAMINER